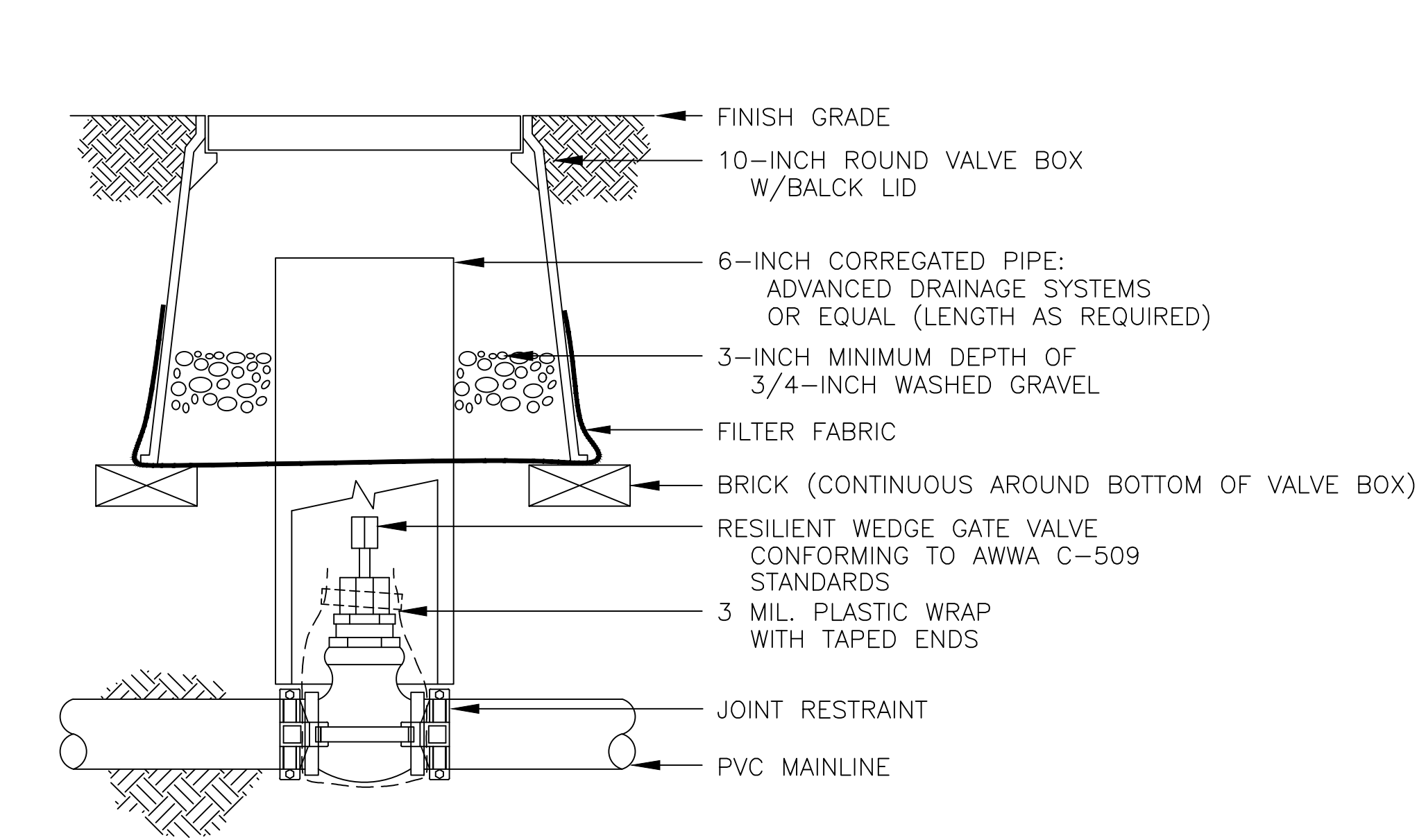


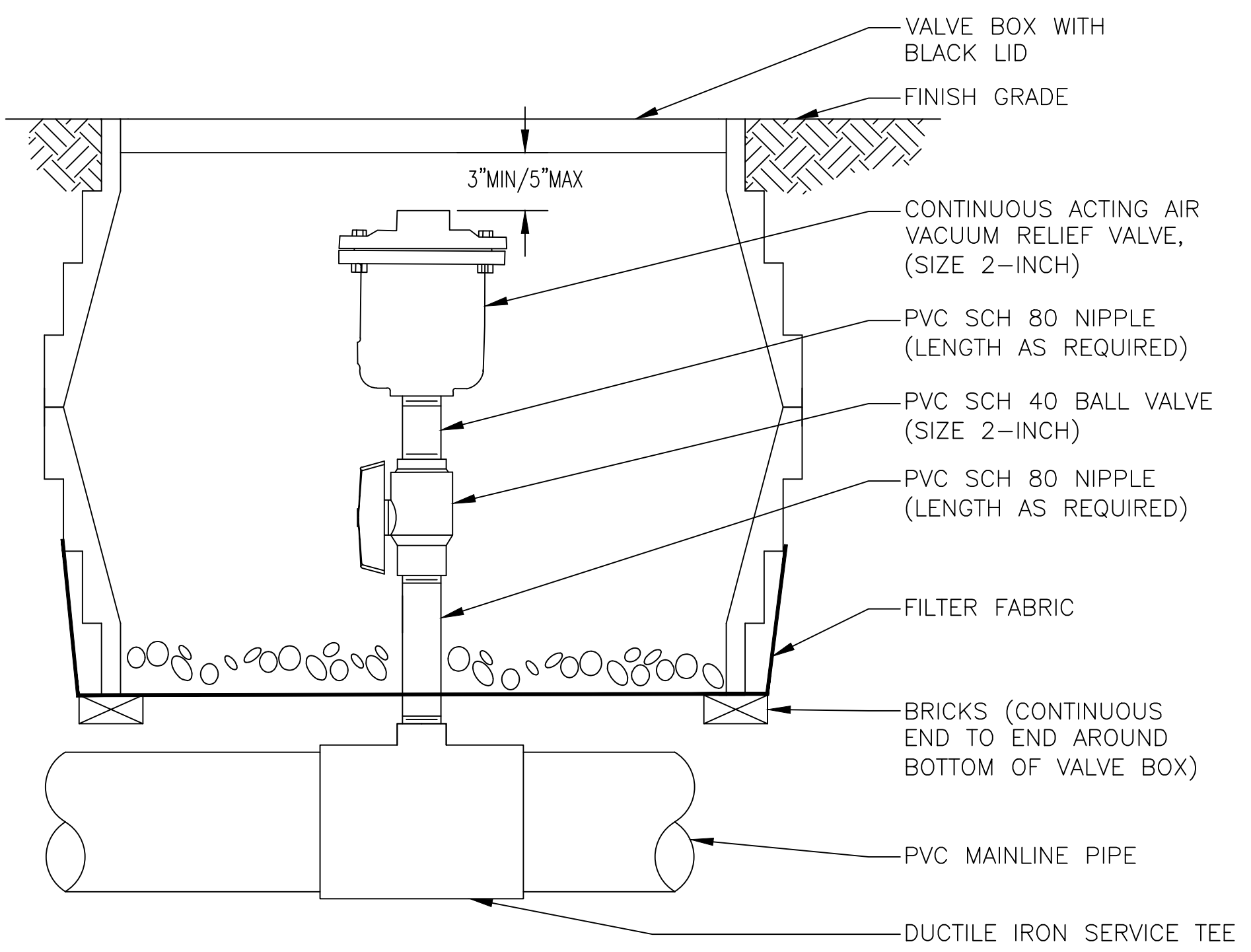
A  
three inches = one foot  
6"  
1  
one and one half inches = one foot  
6"  
2  
one inch = one foot  
6"  
C  
three quarters inch = one foot  
2  
0  
three eighths inch = one foot  
4  
0  
one half inch = one foot  
4  
0  
three eighths inch = one foot  
4  
0  
one quarter inch = one foot  
4  
0  
one eighth inch = one foot  
8  
0  
one eighth inch = one foot  
4  
0  
one eighth inch = one foot  
16  
0

A  
B  
C  
D  
E  
F



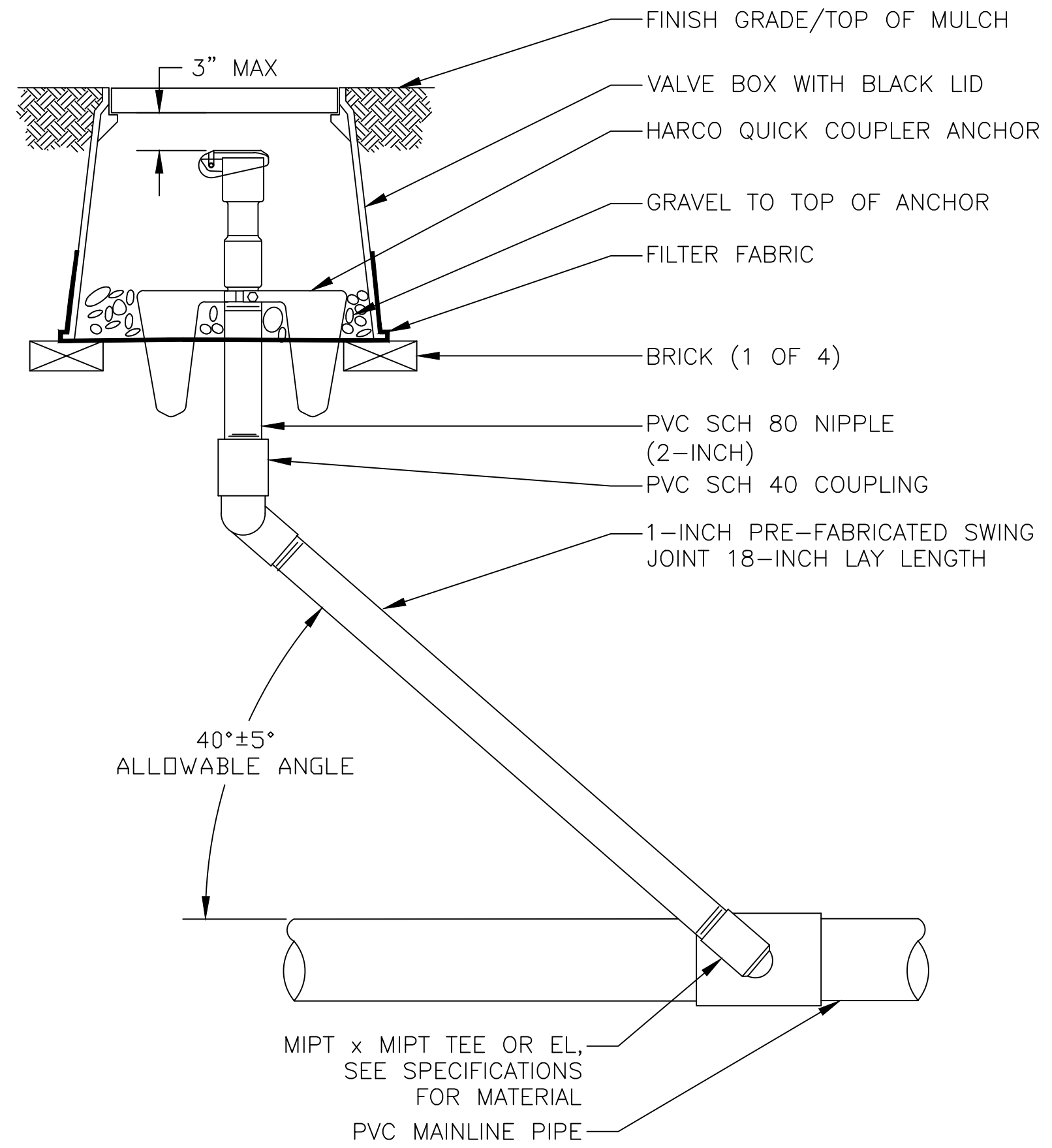
- NOTES:
1. NOMINAL SIZE OF GATE VALVE TO MATCH NOMINAL MAINLINE SIZE.
  2. RESILIENT WEDGE GATE VALVE MAY HAVE EITHER MECHANICAL JOINT OR PUSH-ON GASKETED ENDS. THE OPERATOR IS A WRENCH NUT.
  3. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.
  4. BRAND VALVE BOX LID PER SPECIFICATIONS.
  5. SUBMAIN ISOLATION: USE CONCENTRIC REDUCERS WITH JOINT RESTRAINTS ON DOWNSTREAM SIDE OF 3-INCH GATE VALVE TO MATCH SUBMAINLINE PIPE SIZE.

A2  
I-102  
ISOLATION GATE VALVE ASSEMBLY  
NOT TO SCALE



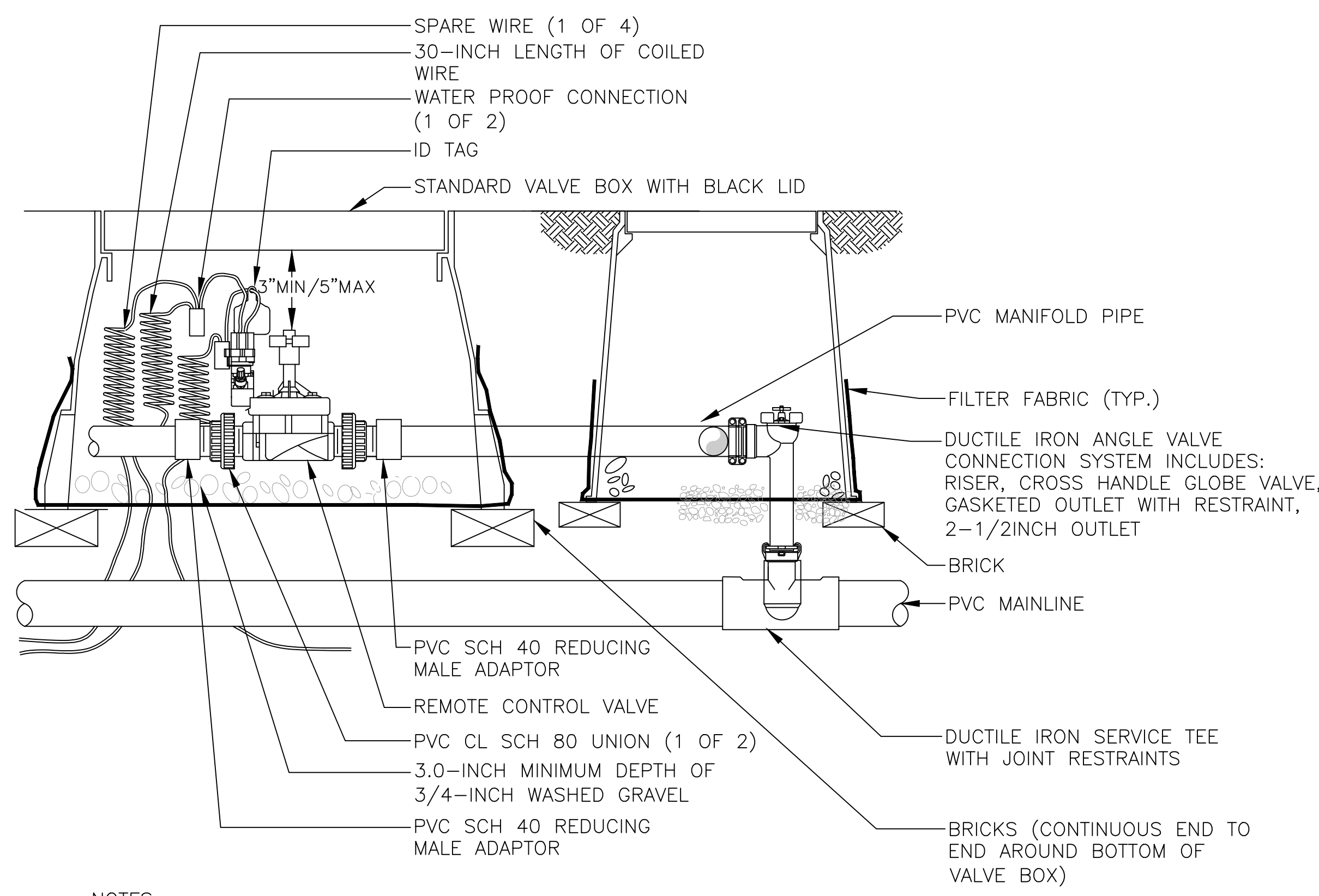
- NOTES:
1. INSTALL VALVE BOX SO THERE IS A CLEARANCE OF 2" BETWEEN THE BOTTOM OF THE VALVE BOX AND THE MAINLINE PIPE.
  2. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.
  3. BRAND VALVE BOX LID PER SPECIFICATIONS.

B2  
I-102  
AIR VACUUM RELIEF VALVE ASSEMBLY  
NOT TO SCALE



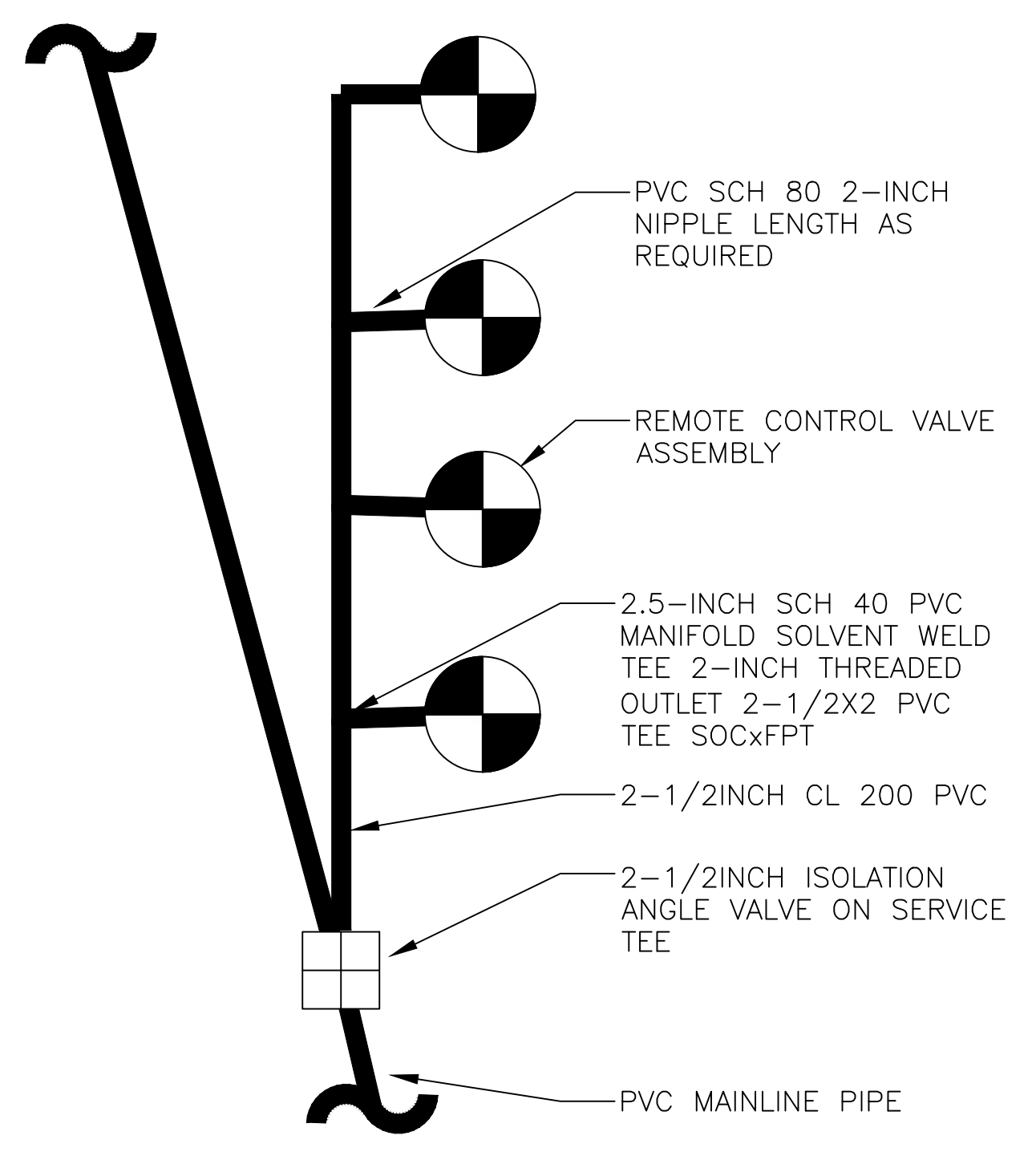
- NOTES:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.
  2. INSTALL SWING JOINT LAY ARM BETWEEN 30° AND 45° OF LATERAL PIPE IN ORDER TO ABSORB DOWNWARD IMPACT. IF SWING JOINT CAN NOT BE INSTALLED AT SPECIFIED ANGLE, CONSULT RESIDENT ENGINEER PRIOR TO INSTALLATION OF SWING JOINT.
  3. BRAND VALVE BOX LID PER SPECIFICATIONS.

E2  
I-102  
QUICK COUPLING VALVE ASSEMBLY  
NOT TO SCALE



- NOTES:
1. USE VALVE BOX EXTENSION AS NECESSARY TO ACHIEVE MINIMUM DIMENSIONS ABOVE ASSEMBLY.
  2. NOMINAL SIZE OF ALL COMPONENTS ARE TO BE THE SAME NOMINAL SIZE AS THE SOLENOID VALVE (SIZED AS SHOWN).
  3. TRANSITION TO PROPER LATERAL PIPE BURIAL DEPTH USING PVC SCH 40 SOLVENT WELD FITTINGS DOWNSTREAM OF REMOTE CONTROL VALVE ASSEMBLY.
  4. INSTALL PRESSURE REGULATOR ON ALL REMOTE CONTROL VALVES. SET PRESSURE MODULE TO INDICATED PRESSURE ON LEGEND PER MANUFACTURER'S RECOMMENDATIONS. 5. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.
  6. BRAND VALVE BOX LID PER SPECIFICATIONS.
  7. DO NOT ALLOW VALVE BOX SIDES TO REST ON PIPE.
  8. INSTALL FILTER FABRIC AROUND EXTERIOR OF VALVE BOX. USE DUCT TAPE TO SECURE FABRIC TO PIPE AND VALVE BOX.

E2  
I-102  
REMOTE CONTROL VALVE ASSEMBLY  
NOT TO SCALE



- FOR MANIFOLDS:
1. SPACE VALVES A UNIFORM DISTANCE APART.
  2. USE MANUFACTURER'S RECOMMENDED TORQUE ON RESTRAINTS. A CALIBRATED TORQUE BAR WILL BE REQUIRED AND CALIBRATION TESTING RESULTS WILL BE AVAILABLE UPON REQUEST.
  3. NO MORE THAN 4 REMOTE CONTROL VALVES MAY BE ON THE SAME ISOLATION MANIFOLD.
  4. VALVES ON A SINGLE MANIFOLD SHOWN GRAPHICALLY ON DRAWINGS.
  5. USE SWIVEL EL TO MINIMIZE THE AMOUNT OF FITTINGS FOR CHANGES OF DIRECTION.

<b>CONSULTANTS:</b>		<b>ARCHITECT/ENGINEERS:</b>		<b>Drawing Title</b> IRRIGATION DETAILS		<b>Project Title</b> SALISBURY NATIONAL CEMETERY GRAVESITE EXPANSION		<b>Project Number</b> 876CM3021		<b>NCA DESIGN AND CONSTRUCTION SERVICE</b> Department of Veterans Affairs		
Consulting Engineers and Scientists 131 12th St. North Birmingham, AL 35203 P (205) 942-1280 F (205) 443-0302		PEAKS TO PLAINS DESIGN 404 NORTH 31ST STREET, SUITE 405 BILLINGS, MONTANA 59101 (406) 294-9499 • (406) 294-9470 FAX WWW.PEAKSTOPLAINS.COM		Aqua Engineering Inc. 3202 West Main Suite C Rapid City, South Dakota 57702 phone:605.343.9606 fax:605.341.7395		JOHN D. LEONARD Professional Irrigation Designer 46102 ©19/2016		4front 517 7th street rapid city sd 57701 p 605.342.9470 f 605.342.2377 www.4front.biz			<b>Building Number</b> N/A	
<b>Revisions:</b>		<b>Date</b>		<b>Approved Project Director</b>		<b>Location</b> SALISBURY NATIONAL CEMETERY SALISBURY, NC		<b>Drawing Number</b> I-104 Dwg 61 of 63				
						<b>Date</b> 7/22/16		<b>Checked</b> RWB			<b>Drawn</b> JDL	

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